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EXAMINER

DOAN, KIET M

ART UNIT PAPER NUMBER

2617

DATE MAILED: 10/02/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/516,786

Applicant(s)

EDELER ET AL.

Examiner

Kiet Doan

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 20 July 2006.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-18 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-18 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on 12/3/04 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

This office action is response to Remarks file on 07/20/2006.

Claims 1-5, 7-9, 11, 13-14 are amended.

Claims 17-18 are new.

Response to Arguments

Applicant's arguments with respect to claims 1 and new claims have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-7, 14, 17-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Osano (Patent No. 6,961,591) in view of Suzuki et al. (Patent No. 6,430,217).

Consider **claims 1 and 17**. Osano teaches mobile electronic device, having comprising:

a radio receiver,

an amplifier (C7, L36-55, Fig.6, Illustrate handheld telephone No.101 as read on radio receiver wherein contain radio receiver No.41 and amplifier), and

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an audio connector for connecting to an audio reproduction component (Fig.5, Illustrate earphone No.800 as read on audio connector for connecting to an handheld telephone No.101 as read on audio reproduction component),

wherein said audio connector comprises at least one first contact and at least one second contact,

wherein said first contact is connected to ground, and said second contact is connected to said amplifier (C10, L60-67, Fig.8B, Illustrate audio connector contain first contact as read on annular unit No.56 which connected to ground and Fig.8C Illustrate second connector which read on "L" and "R" channel which connect to amplifier). Osano teaches limitation of claim as discuss **but silent on** wherein a band-pass filter component is interconnected between said first contact and said radio receiver.

In an analogous art, Suzuki teaches "Noise eliminated digital wireless transceiver apparatus". Further, **Ramsey teaches** wherein a band-pass filter component is interconnected between said first contact and said radio receiver (Abstract, C3, L1-25, C4, L26-35, Fig.1, Illustrate radio receiver as read on telephone unit 30 wherein contain band-pass filter component No.33).

Therefore, it would have been obvious at the time that the invention was made that person having ordinary skill in the art to modify Osano and Suzuki system, such that mobile electronic device contain an audio connector connecting to an audio reproduction component wherein said first contact is connected to ground, and said second contact is connected to said amplifier and contain band-pass filter component to

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provide means for the user when receiving audio signal without noise interference and balance the signal.

Consider **claim 2**. Suzuki teaches mobile electronic device according to claim 1, wherein said band-pass filter component comprises a capacitor connected between said first contact and ground (C5, L55-67, Fig.1, Illustrate describe the limitation).

Consider **claim 3**. Suzuki teach mobile electronic device according to claim 1, wherein said band-pass filter component is an oscillating circuit composed of an inductor and a capacitor (C3, L5-60, Fig.1, Illustrate describe the limitation).

Consider **claims 4, 18**. Suzuki teaches mobile electronic device according to claim 3, wherein transmitted frequencies of the band-pass filter component are within a radio frequency range, and suppressed frequencies comprise mobile phone frequencies and audio frequencies (C3, L29-60).

Consider **claims 5 and 14**. Suzuki teaches mobile electronic device according to claim 2, wherein said capacitor has a capacity between 10 pF and 100 pF (C3, L56-63, C4, L15-20).

Consider **claim 6**. Suzuki teaches mobile electronic device according to claim 1, wherein said device comprises a mobile telephone (Fig.1, Illustrate No.30 as mobile telephone).

Consider **claim 7**. Mobile electronic device according to claim 1, wherein said radio receiver further comprises a television receiver (examiner take official notice that the radio receiver further comprises a television receiver is well know in the art).

Claim 8-13, 15-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Osano (Patent No. 6,961,591) in view of Suzuki et al. (Patent No. 6,430,217) and further view of Ito (Patent No. 6,203,344).

Consider **claim 8**. Osano and Suzuki teach the limitation of claim as discuss above **but silent on** mobile electronic device according to claim 1, further comprising a media player (30).

In an analogous art, Ito teaches "Jack, reproducing apparatus and data communication system". Further, **Ito teaches** mobile electronic device according to claim 1, further comprising a media player (30) (C4, L54-60, Fig. 1, Illustrate No.200 as a media player).

Therefore, it would have been obvious at the time that the invention was made that person having ordinary skill in the art to modify Osano, Suzuki and Ito system, such that mobile electronic device further comprising a media player to provide means for device playing music which the users can listen in stereo quality.

Consider **claim 9**. Ito teaches mobile electronic device according to claim 8, wherein said media player (30) includes a media recorder (C4, L13-54, Fig.1, No1. Illustrate as media recorder).

Consider **claim 10**. Osano teaches Mobile electronic device according to claim 1, wherein said audio connector comprises at least one third contact connected to a component of said electronic device (Fig.12, Illustrate as audio connector No.86 as at least one third contact connected to a component of said electronic device).

Consider **claim 11**. Osano teaches mobile electronic device according to claim 6, wherein said third contact is connected to a mobile phone component of said mobile electronic device, to provide a headset for the mobile phone within said mobile electronic device (Fig.12, Illustrate the limitation of claim and description).

Consider **claim 12**. Osano teaches mobile electronic device according to claim 10, wherein said third contact is connected to control components of said mobile electronic device, to provide a remote control functionality for the mobile electronic device (C14, L48-67, C15, L1-24, Fig.12 Illustrate the limitation of claim and description).

Consider **claim 13**. Osano teaches mobile electronic device according to claim 1,

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further comprising a direct current blocking capacitor interconnected between said first contact and said radio receiver (C12, L25-48, Fig.10B).

Consider **claim 15**. Osano teaches mobile electronic device according to claim 10, wherein said third contact is connected to a mobile phone component of said mobile electronic device, to provide a headset for the mobile phone within said mobile electronic device (Fig.12, Illustrate the limitation of claim).

Consider **claim 16**. Osano teaches mobile electronic device according to claim 11, wherein said third contact is connected to control components of said mobile electronic device, to provide a remote control functionality for the mobile electronic device (Fig.12, Illustrate the limitation of claim and describe).

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the

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shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kiet Doan whose telephone number is 571-272-7863.

The examiner can normally be reached on 8am - 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, George Eng can be reached on 571-272-7495. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Kiet Doan
Patent Examiner


GEORGE ENG
SUPERVISORY PATENT EXAMINER